Appl. No. 10/623,804
Amendment dated January 30, 2007
Reply to Office Action of November 3, 2006

IN THE CLAIMS:

This listing of claims will replace all prior versions and listings of the claims in the application:

1. (Currently Amended) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, comprising:

dividing the available wireless bandwidth into a high band and a low band;

sending a first signal in a the first wireless network across the high band; and

sending a second signal in a the second wireless network across the low band,

wherein the first signal and the second signal each comprise a plurality of modulated pulses, and

wherein each of the modulated pulses comprises a plurality of consecutive iterations of an oscillating signal.

2. (Original) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the available bandwidth is between 1.5 GHz and 10 GHz.

3. (Original) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the low band has a center frequency between 3.6 GHz and 4.6 GHz.

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4. (Original) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the low band has a center frequency of about 4.104 GHz.

5. (Original) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the 3 dB bandwidth of the low band is between 1 GHz and 2 GHz.

6. (Original) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the 3 dB bandwidth of the low band is about 1.368 GHz.

7. (Original) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the high band has a center frequency between 7.7 GHz and 8.7 GHz.

8. (Original) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the high band has a center frequency of about 8.208 GHz.

9. (Original) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the 3 dB bandwidth of the high band is between 2 GHz and 4 GHz.

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10. (Original) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the 3 dB bandwidth of the high band is about 2.736 GHz.

11. (Currently Amended) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the first and second wireless networks are ~~preferably~~ ultrawide bandwidth networks.

12. (New) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein each of the modulated pulses comprises three consecutive iterations of a sinusoidal signal.

13. (New) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, comprising:

dividing the available wireless bandwidth into a high band and a low band, the high band spanning a first contiguous frequency range, and the low band spanning a second contiguous frequency range separate from the first contiguous frequency range;

transmitting all signals in the first wireless network across the high band; and

transmitting all signals within the second wireless network across the low band.

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14. (New) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 13, wherein the first and second contiguous frequency ranges are separated by an interference band.

15. (New) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 13, wherein the interference band is located between 5.15 GHz to 5.825 GHz.

16. (New) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 13,

wherein the low band has a center frequency between 3.6 GHz and 4.6 GHz, and

wherein the high band has a center frequency between 7.7 GHz and 8.7 GHz.

17. (New) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 13, wherein the first and second wireless networks are ultrawide bandwidth networks.

18. (New) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 13,

wherein the first signals and the second signals each comprise a plurality of modulated pulses, and

wherein each of the modulated pulses comprises a plurality of consecutive iterations of an oscillating signal.

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19. (New) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 18, wherein each of the modulated pulses comprises three consecutive iterations of a sinusoidal signal.

20. (New) A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, comprising:

dividing the available wireless bandwidth into a high band and a low band, the high band spanning a first contiguous frequency range, and the low band spanning a second contiguous frequency range separate from the first contiguous frequency range;

transmitting first signals in the first wireless network across the high band; and

transmitting second signals within the second wireless network across the low band, wherein all signal traffic in the first wireless network takes place in the high band; and wherein all signal traffic in the second wireless network takes place in the low band.

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